

FIG. 1
PRIOR ART

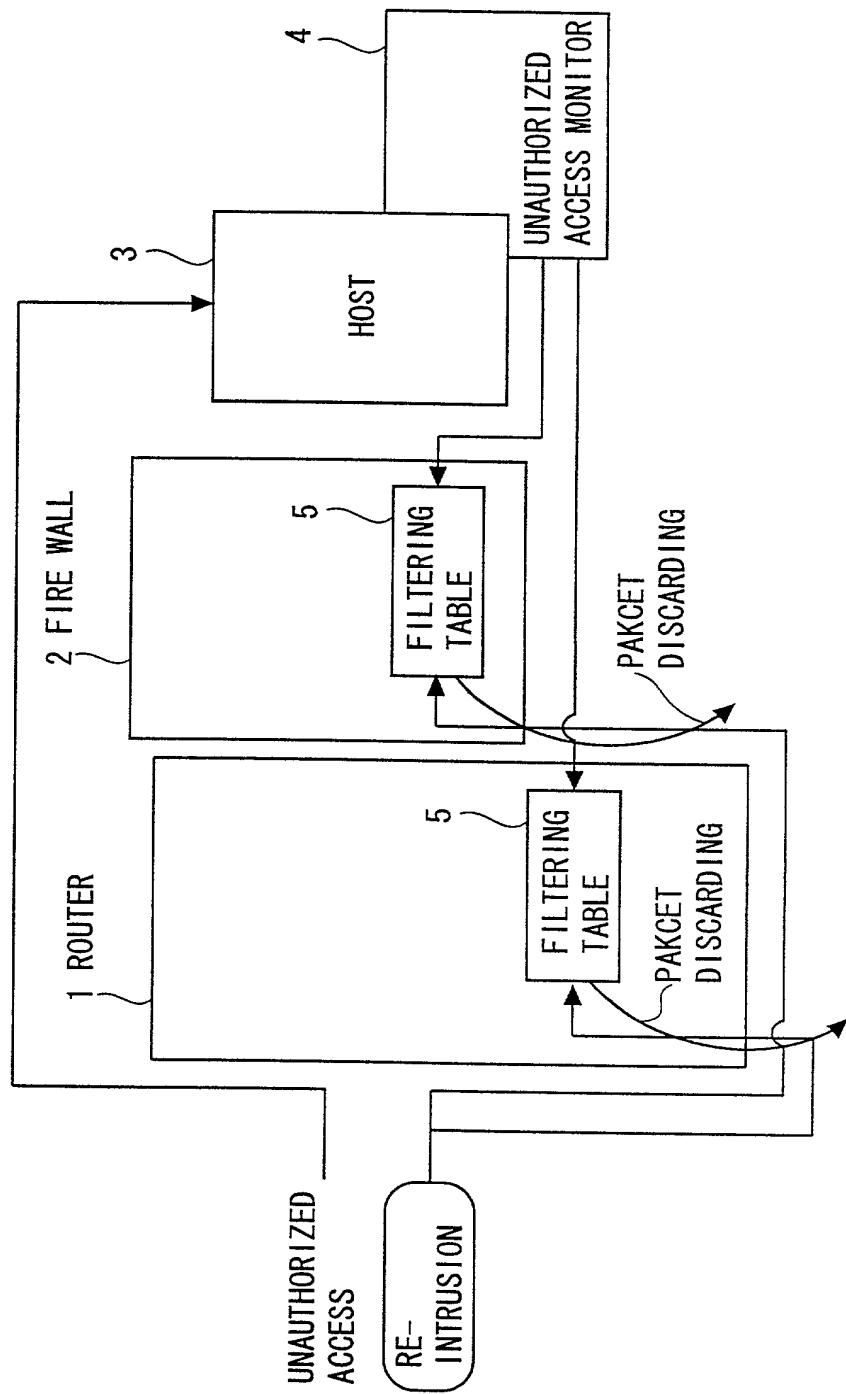


FIG. 2
PRIOR ART

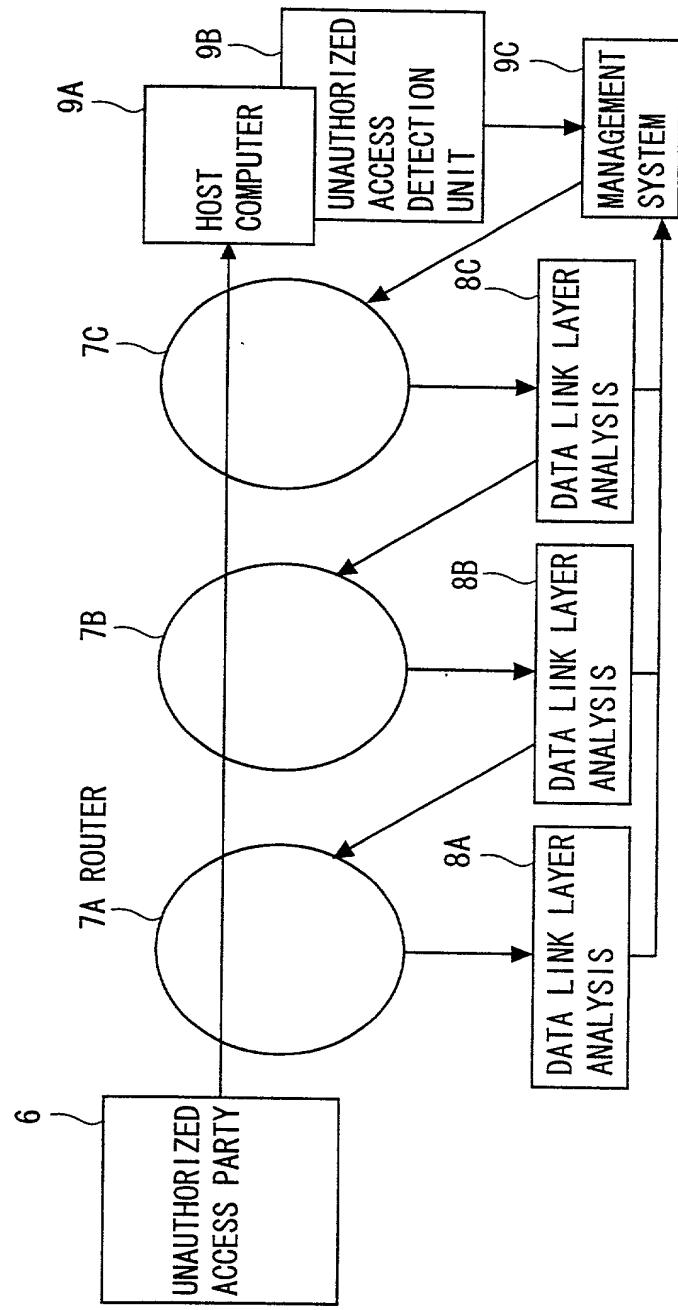


FIG. 3

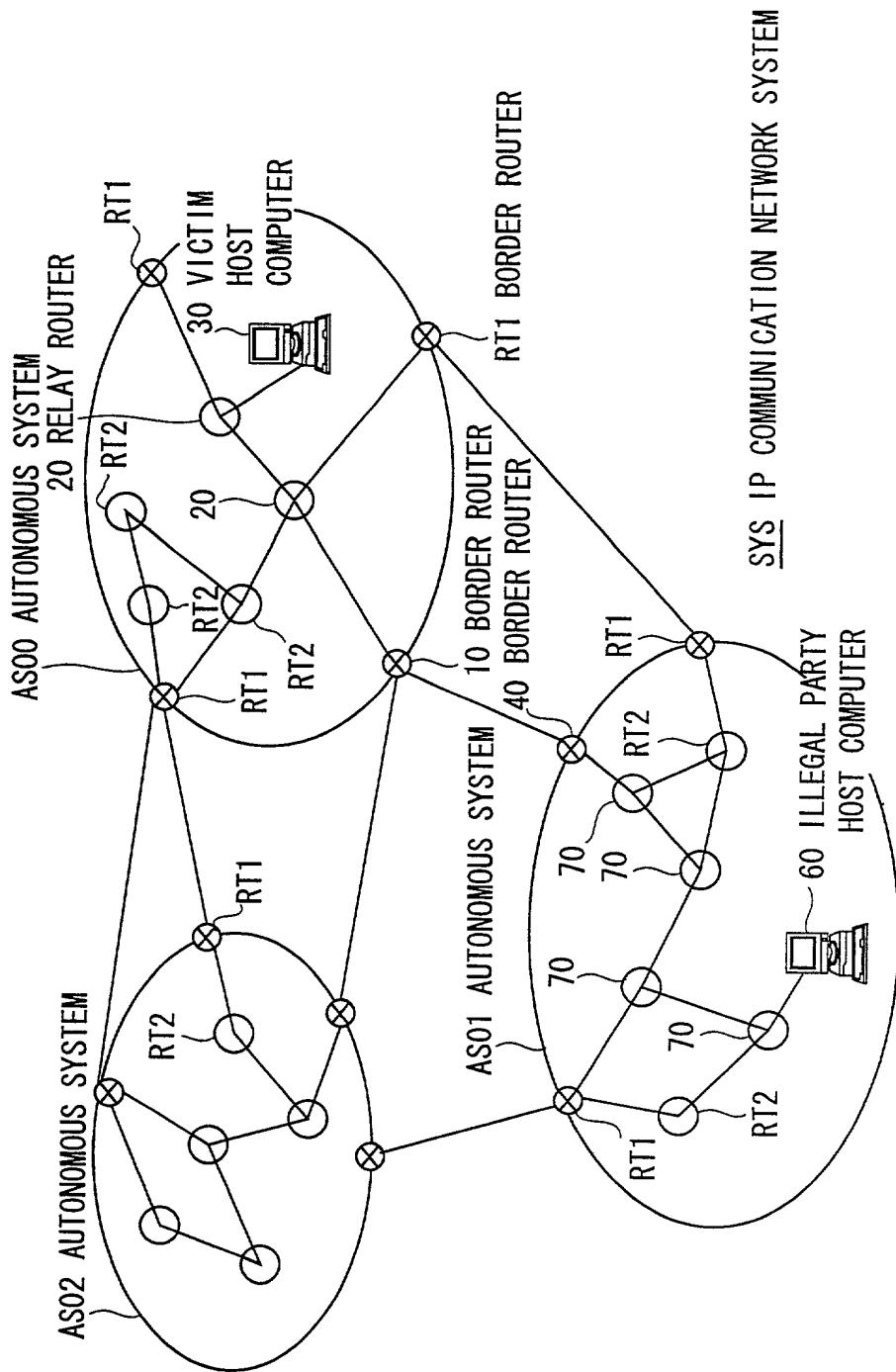


FIG. 4

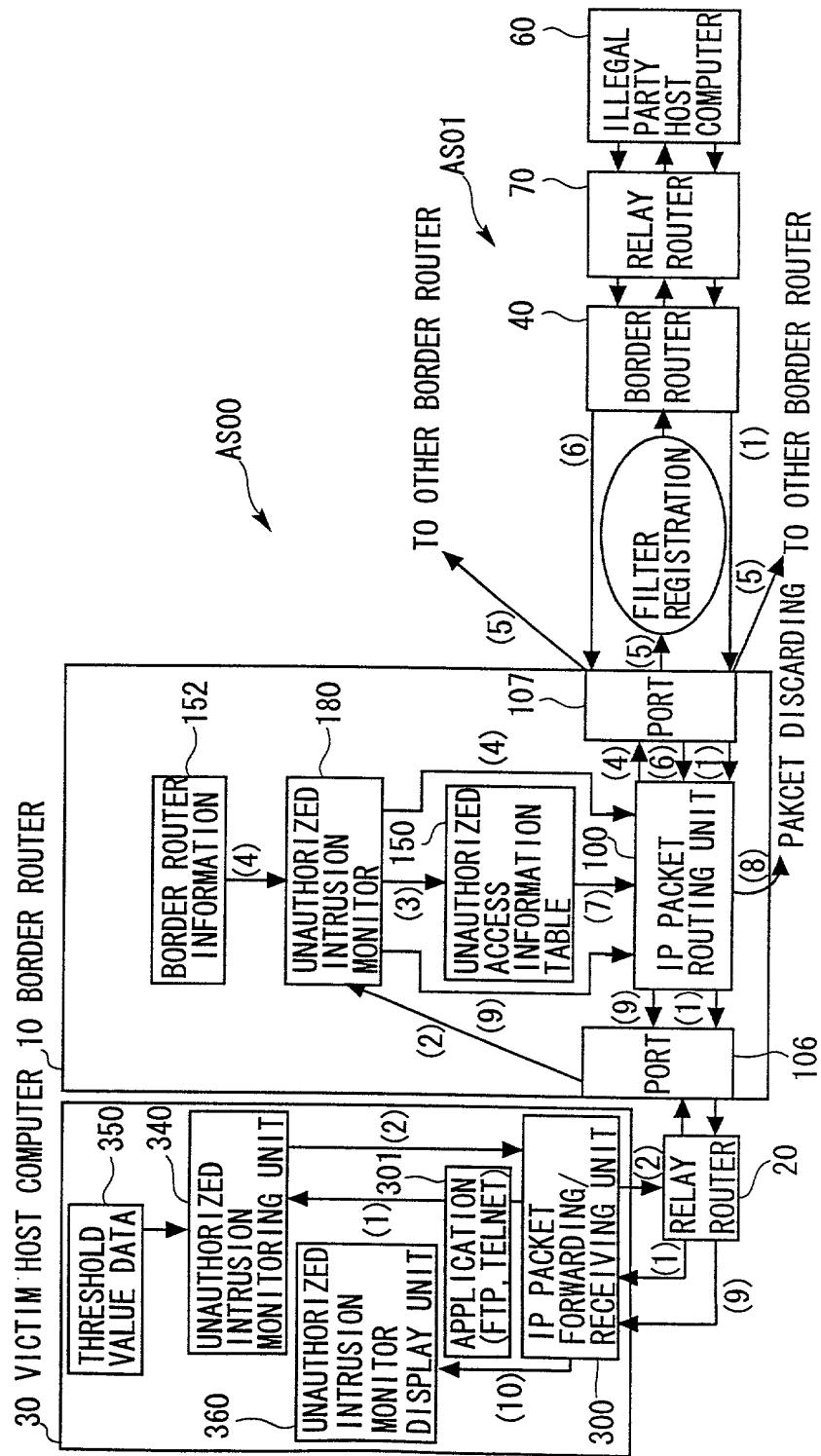


FIG. 5

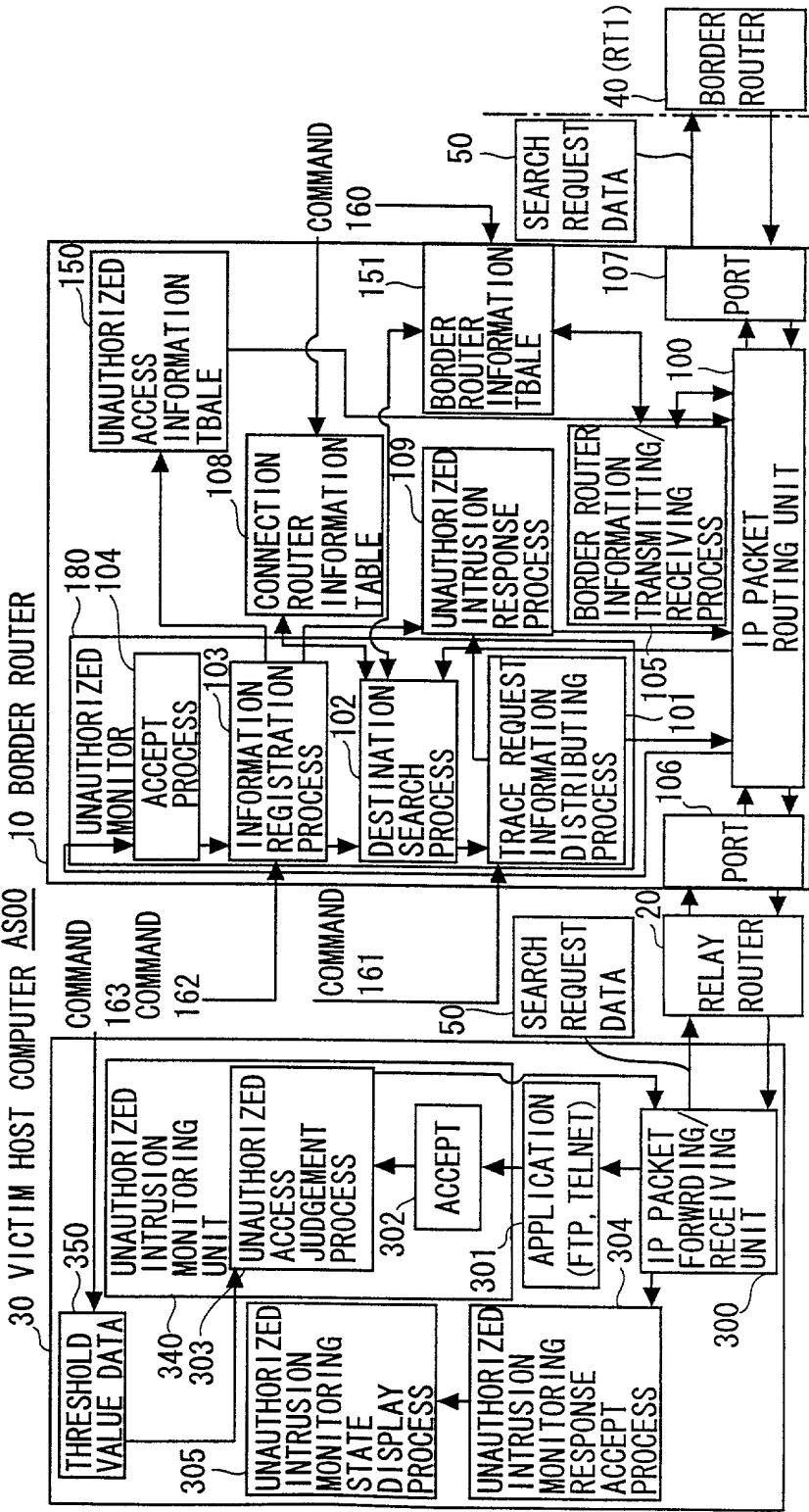


FIG. 6

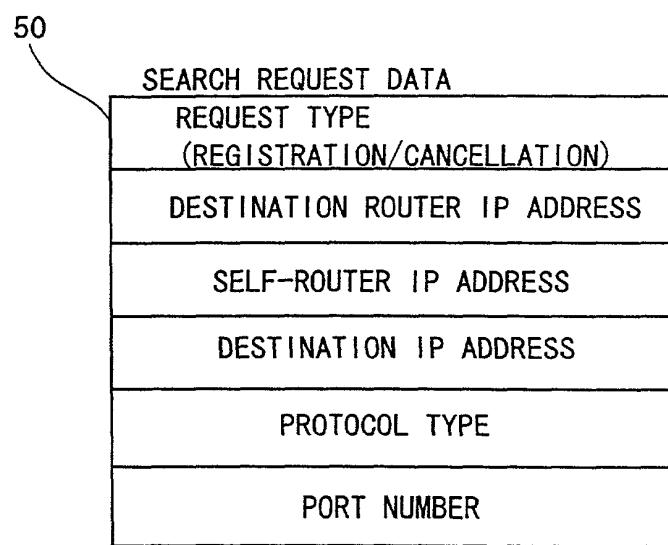


FIG. 7

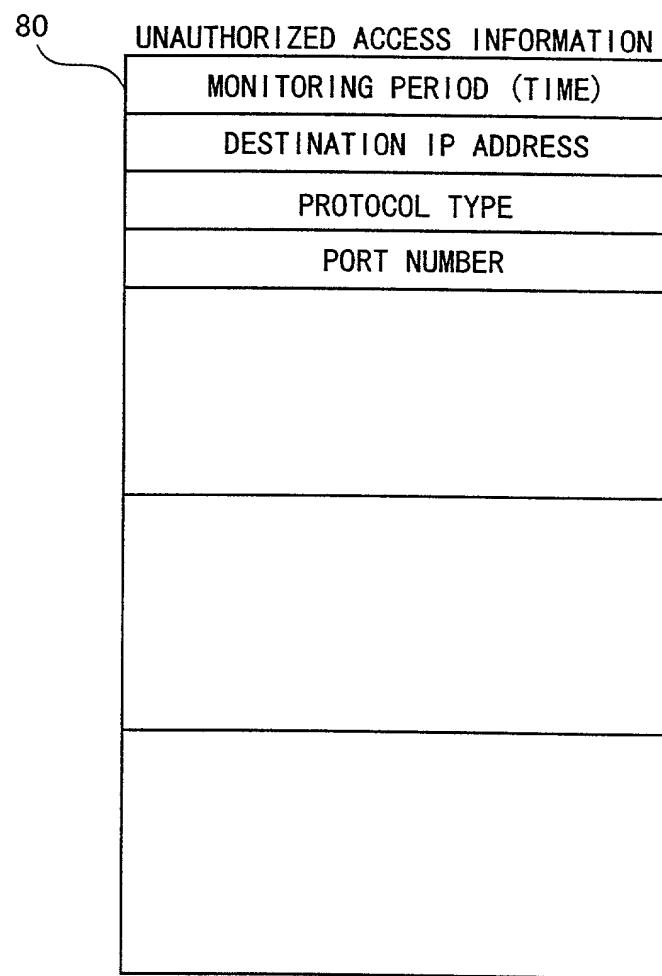
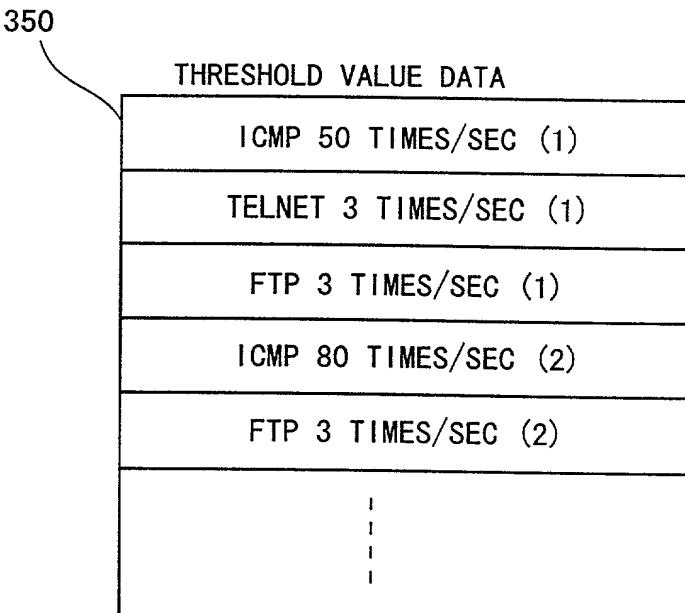


FIG. 8



350

THRESHOLD VALUE DATA
ICMP 50 TIMES/SEC (1)
TELNET 3 TIMES/SEC (1)
FTP 3 TIMES/SEC (1)
ICMP 80 TIMES/SEC (2)
FTP 3 TIMES/SEC (2)
⋮

FIG. 9

152

BORDER ROUTER INFORMATION

BORDER ROUTER IP ADDRESS #1
BORDER ROUTER IP ADDRESS #2
BORDER ROUTER IP ADDRESS #3
BORDER ROUTER IP ADDRESS #4

FIG. 10

90

CONNECTION ROUTER INFORMATION

SELF-ROUTER INFORMATION	CONNECTION ROUTER INFORMATION
MAC ADDRESS #1	CONNECTION ROUTER IP ADDRESS #1
VPI/VCI#1	CONNECTION ROUTER IP ADDRESS #2
INPUT PORT INFORMATION #1	CONNECTION ROUTER IP ADDRESS #3
⋮	⋮

FIG. 11

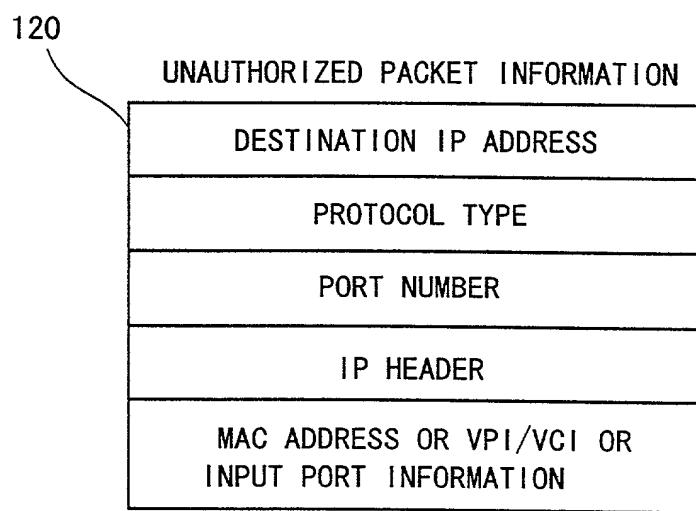


FIG. 12

140 UNAUTHORIZED INTRUSION RESPONSE DATA



DESTINATION IP ADDRESS
SELF-ROUTER IP ADDRESS
PROTOCOL TYPE
PORT NUMBER
SELF-ROUTER AS NUMBER
RESPONSE TYPE (DISCOVERING OF UNAUTHORIZED ACCESS/MONITORING OF UNAUTHORIZED ACCESS)

FIG. 13

350

JUDGEMENT TYPE OF
THRESHOLD VALUE DATA

ICMP 50 TIMES/SEC (1)
TELNET 3 TIMES/SEC (1)
FTP 3 TIMES/SEC (1)
ICMP 80 TIMES/SEC (2)
FTP 3 TIMES/SEC (2)

ELEMENTS PER JUDGEMENT TYPE

ICMP 50 TIMES/SEC (1) : JUDGED TO BE UNAUTHORIZED ACCESS WHEN ALL THE FOLLOWING CONDITIONS ARE COINCIDENT WITH AND CONDITIONS	
UNAUTHORIZED ACCESS TRY COUNT	50 TIMES/SEC
APPLICATION IDENTIFIER	NO IDENTIFIER
MESSAGE TYPE	ICMP ECHO
SAME USER JUDGEMENT	NEGATED
SAME SESSION JUDGEMENT	NEGATED
INPUT COMMAND	NO COMMAND
ALARM FUNCTION	ALARMED
MONITORING START TIME	ALL
MONITORING END TIME	ALL

TELNET 3 TIMES/SEC (1) : JUDGED TO BE UNAUTHORIZED ACCESS WHEN ALL THE FOLLOWING CONDITIONS ARE COINCIDENT WITH AND CONDITIONS	
UNAUTHORIZED ACCESS TRY COUNT	3 TIMES/SEC
APPLICATION IDENTIFIER	TELNET
MESSAGE TYPE	NOTHING
SAME SESSION JUDGEMENT	JUDGED
SAME USER JUDGEMENT	JUDGED
INPUT COMMAND	PING
ALARM FUNCTION	ALARMED
MONITORING START TIME	01:00
MONITORING END TIME	06:00

FIG. 14
360 UNAUTHORIZED INTRUSION MONITOR DISPLAY UNIT

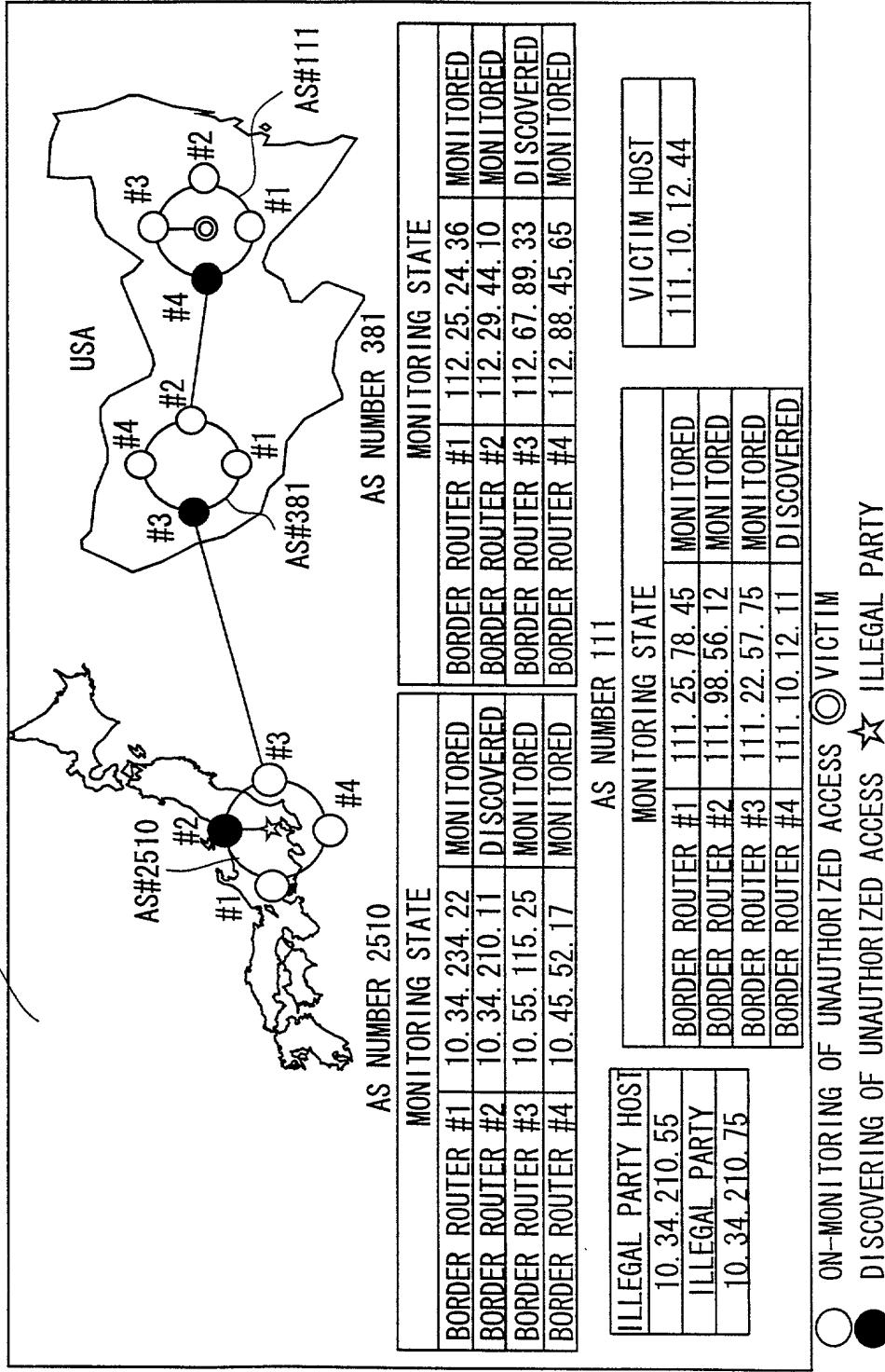


FIG. 15

TECHNICAL FIELD

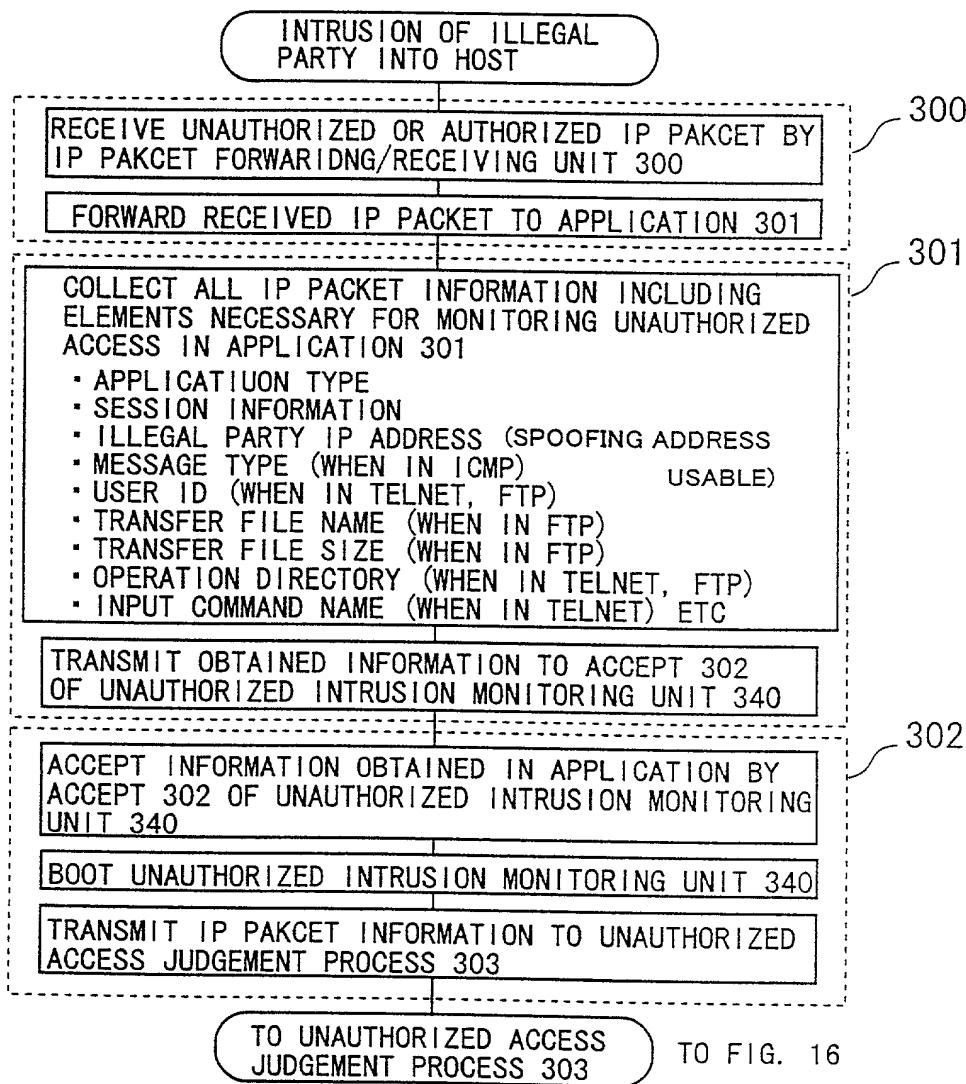


FIG. 16

FROM FIG. 15

UNAUTHORIZED ACCESS JUDGEMENT PROCESS 303

303

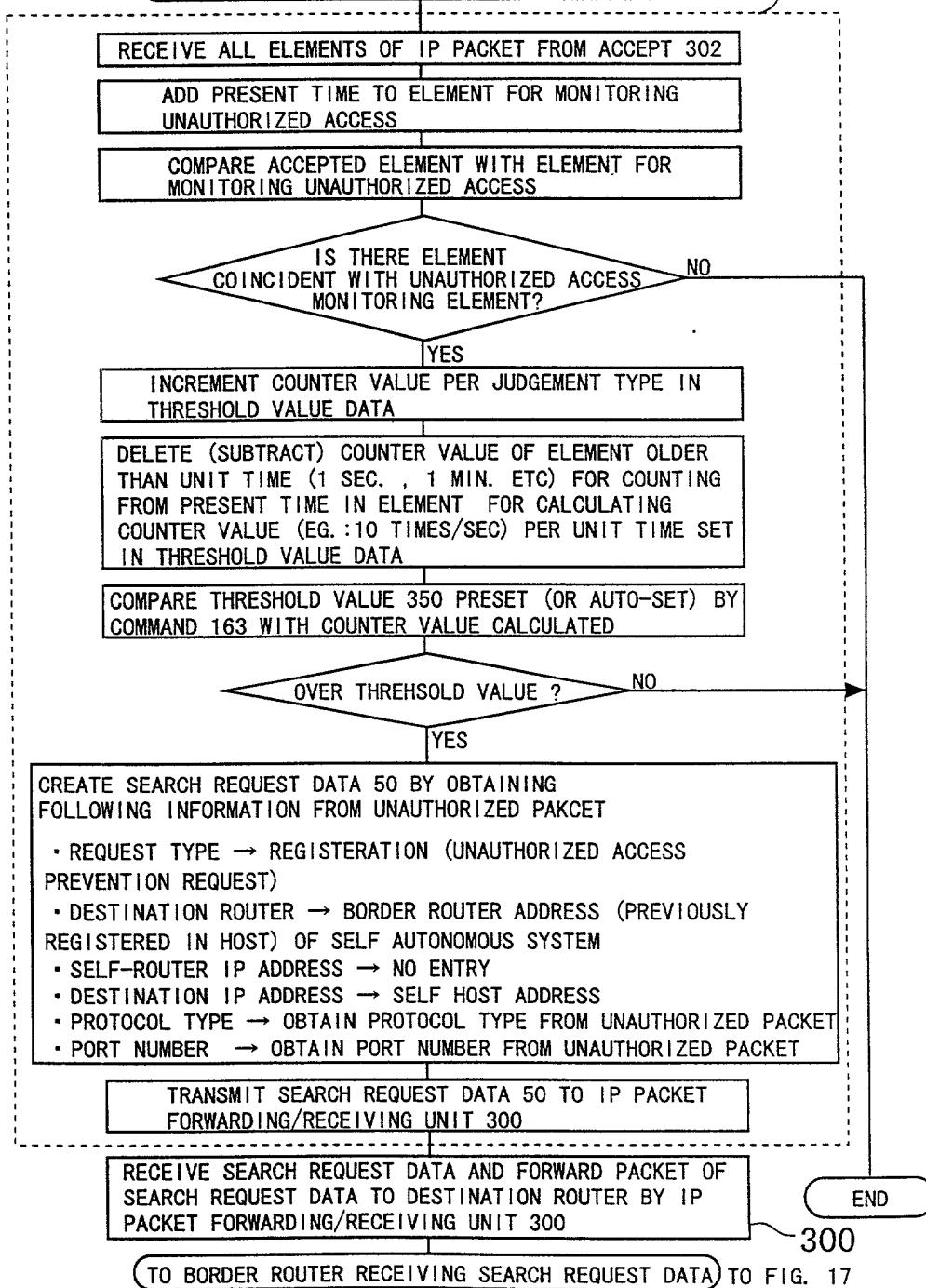


FIG. 17

FROM FIG. 16

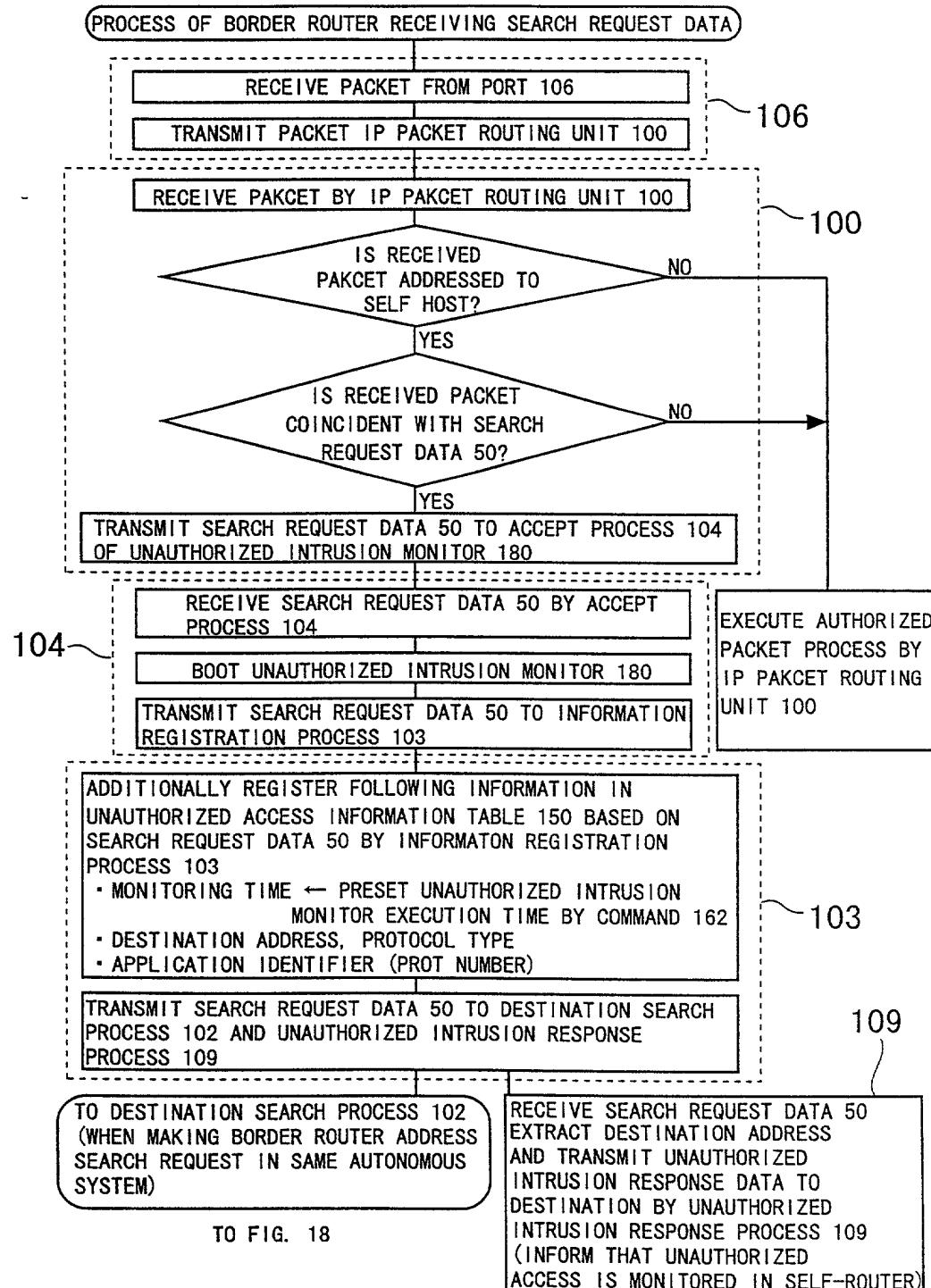
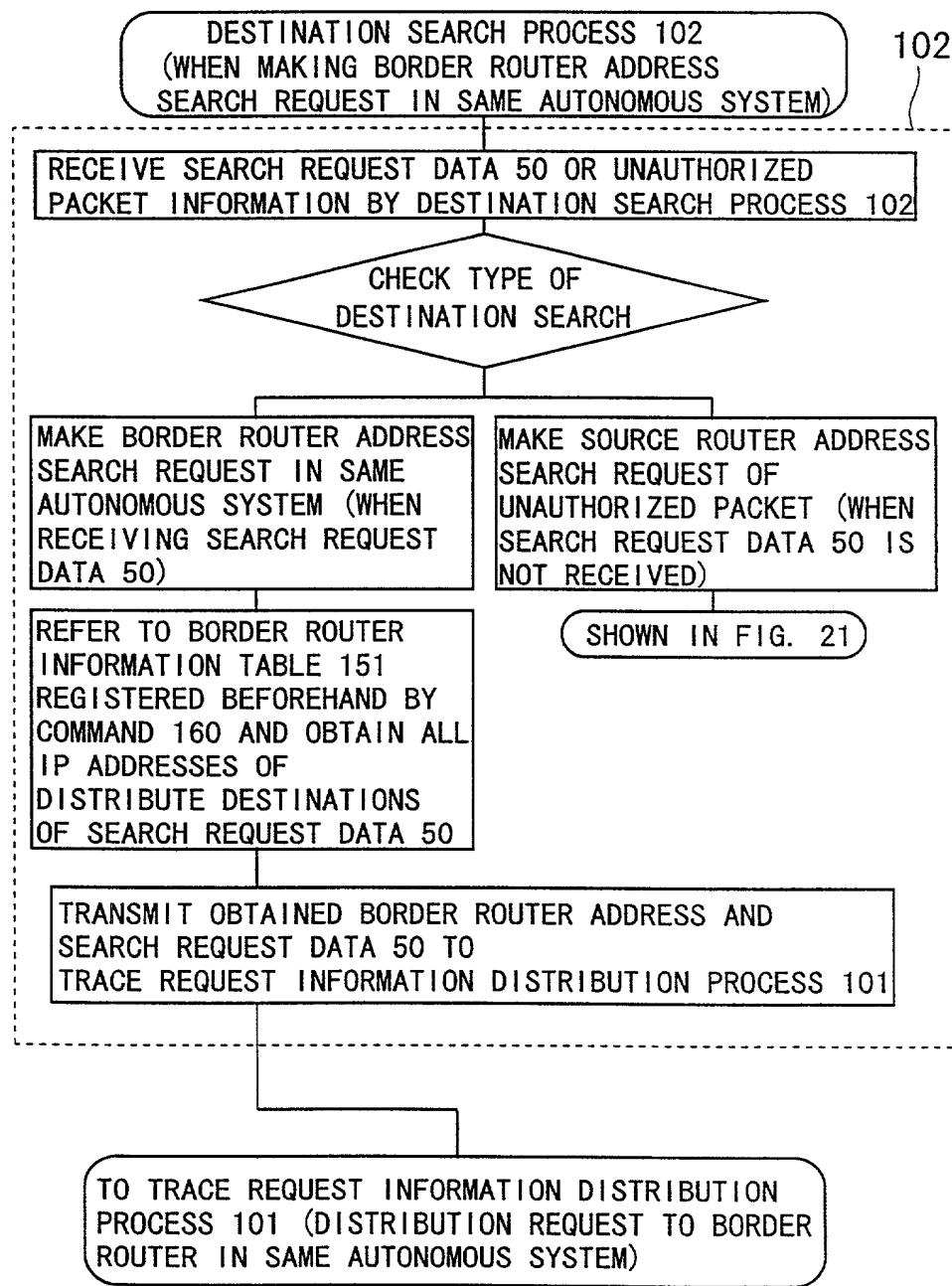


FIG. 18

FROM FIG. 17



TO FIG. 19

FIG. 19

FROM FIG. 18

TRACE REQUEST INFORMATION DISTRIBUTION
PROCESS 101 (DISTRIBUTION REQUEST TO
BORDER ROUTER IN SAME AUTONOMOUS SYSTEM)

101

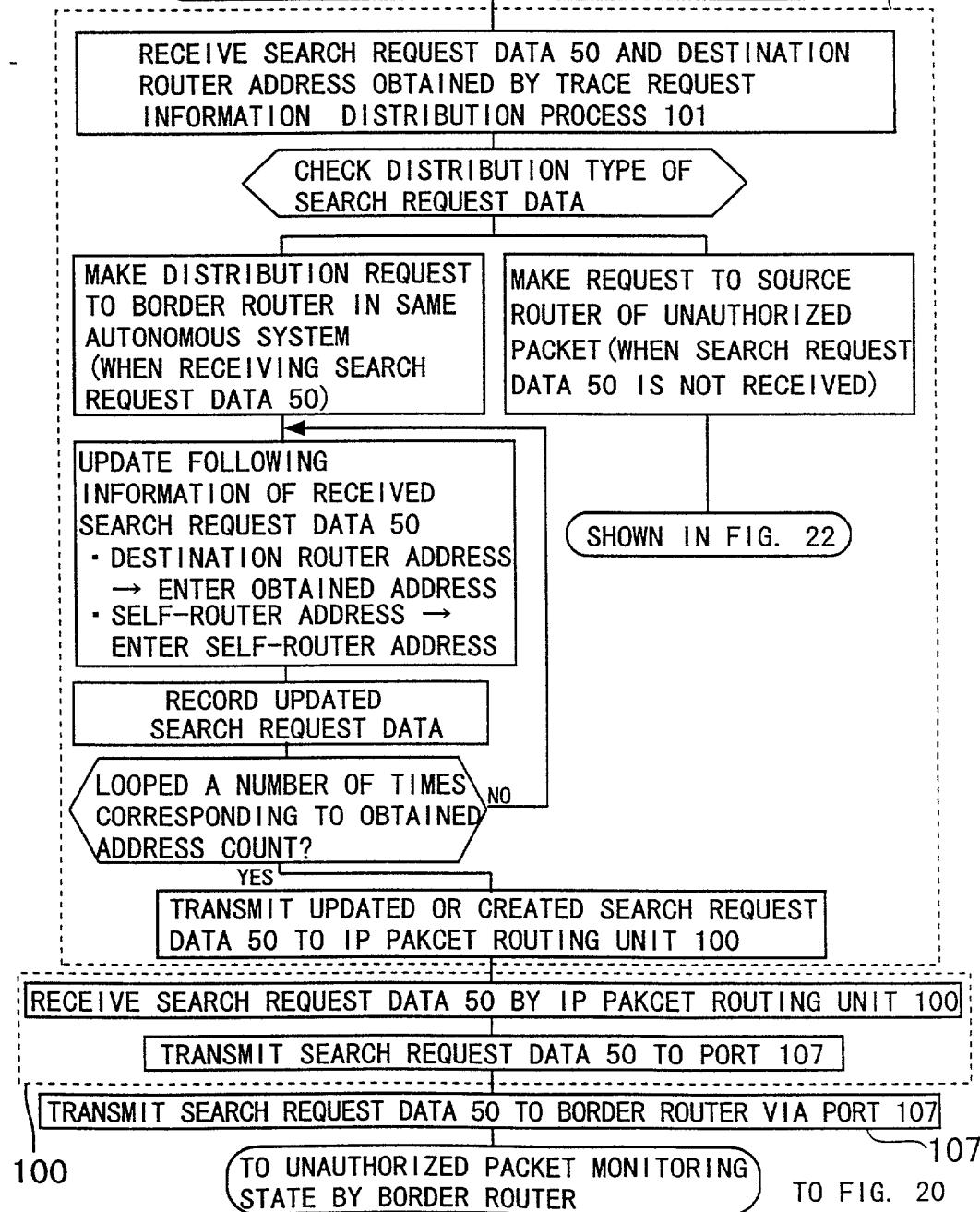
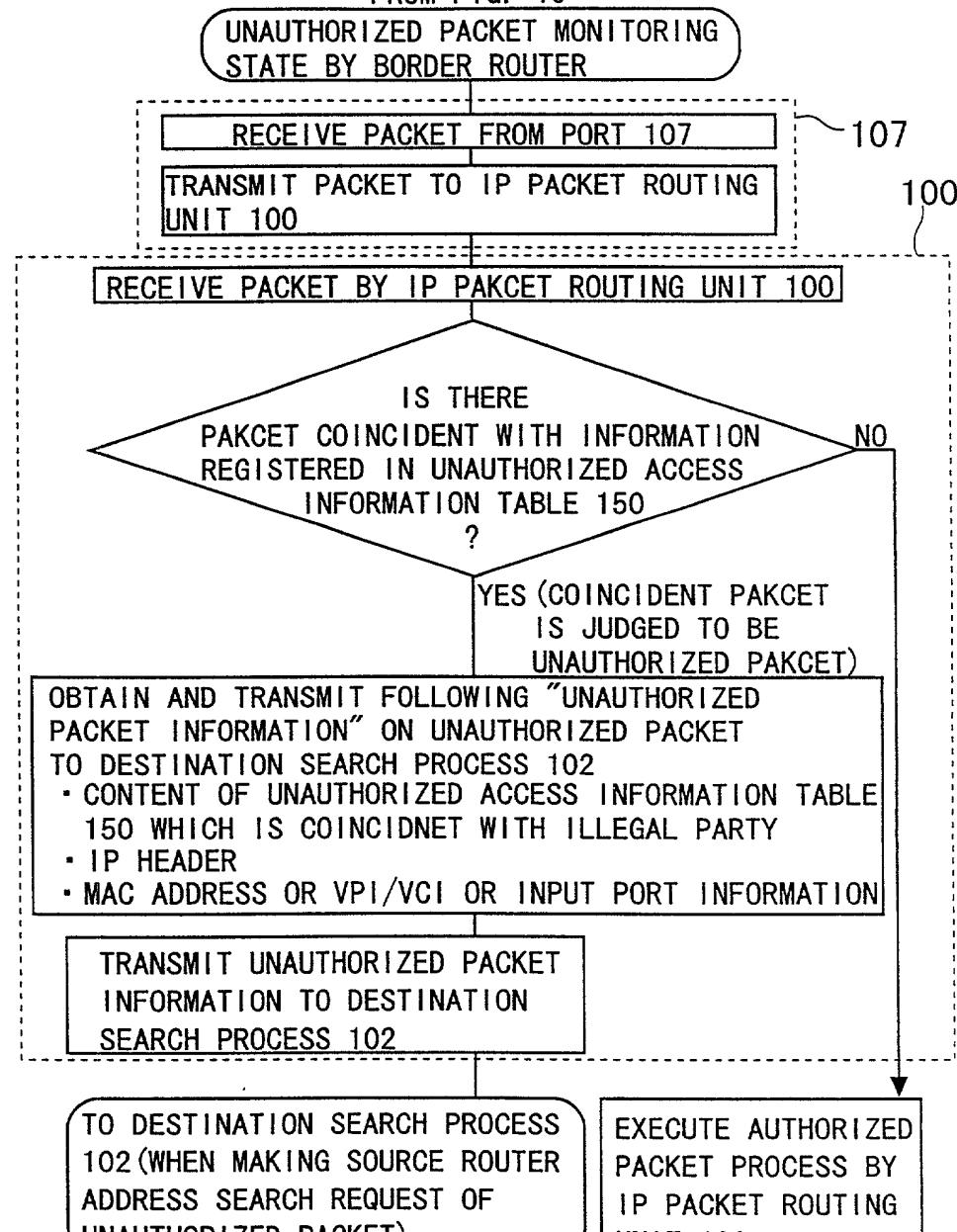


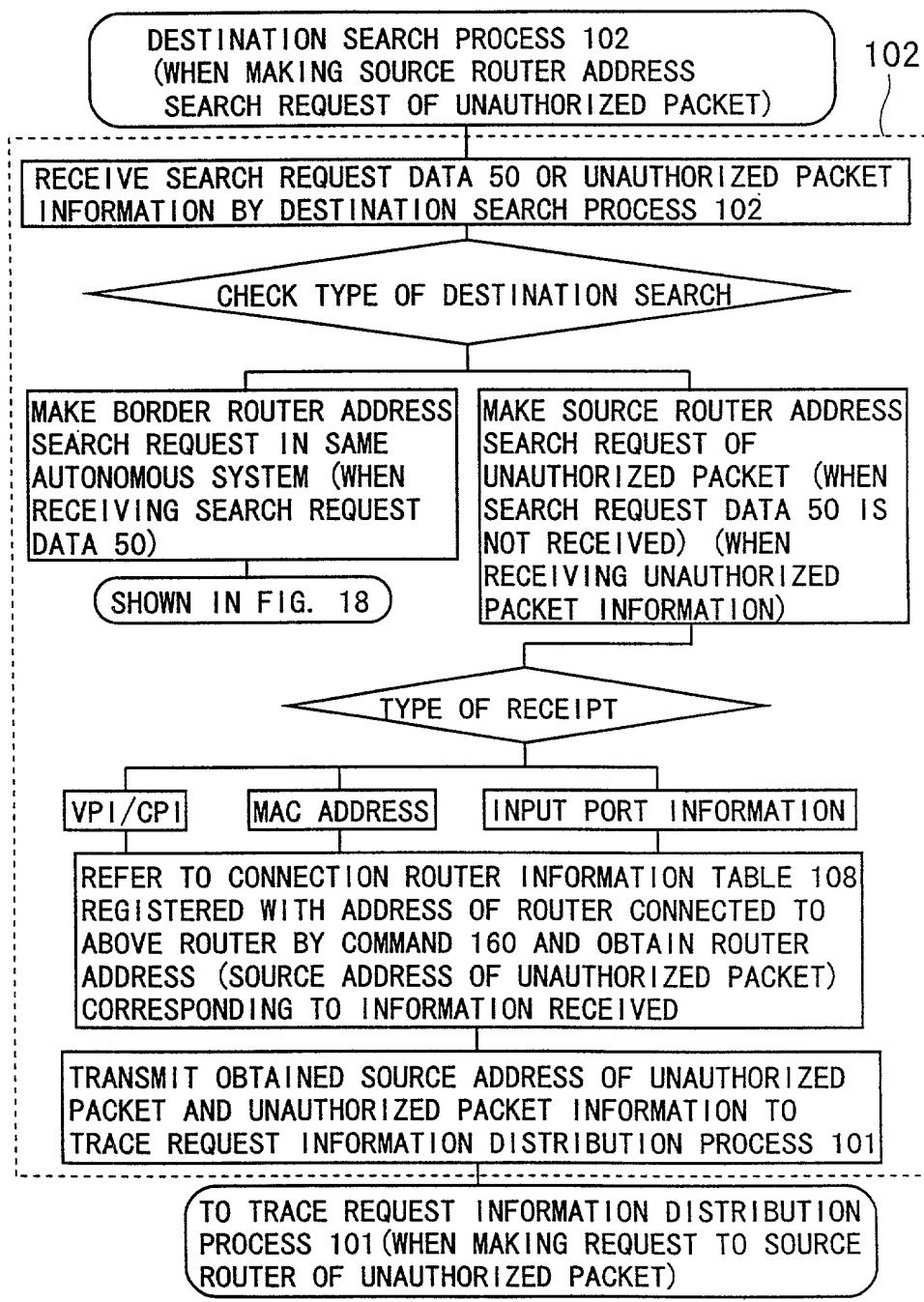
FIG. 20

FROM FIG. 19



TO FIG. 21

FIG. 21
FROM FIG. 20



TO FIG. 22

FIG. 22

FROM FIG. 21

